

CLAIMS:

1. Integrated circuit with at least two resonator circuits, in particular for multi-band operation,
 - each resonator circuit comprising at least two inductors,
 - each resonator circuit comprising at least one capacitor,
 - 5 - where said at least two inductors and said capacitor provide one resonant circuit, respectively,characterized in
 - that said inductors for said at least two resonator circuits are provided by one coil, and
 - 10 - that said coil is mounted on the chip area of said integrated circuit.
2. Integrated circuit according to claim 1, characterized in that said coil comprises one center tap, that said coil comprises intermediate taps, and that said coil comprises two connection leads.
- 15 3. Integrated circuit according to claim 1, characterized in that said coil is split into two branches by said center tap and that said intermediate taps divide said branches into segments.
- 20 4. Integrated circuit according to claim 3, characterized in that said segments are symmetrically arranged on said branches.
5. Integrated circuit according to claim 1, characterized in that, said inductors are determined by said segments between said center tap, said intermediate taps and said
25 connection leads.
6. Integrated circuit according to claim 1, characterized in that said coil is a multi-turn coil.

7. Integrated circuit according to claim 1, characterized in that said coil is a single-turn coil.
8. Telecommunication equipment, in particular multi-band telecommunication equipment, comprising an integrated circuit according to claim 1.
9. Use of an integrated circuit according to claim 1 in broadcast or telecommunication equipment, in particular multi-band operation.